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A climate change adaptation measure through education and citizen science. The project FLOODUP

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In this communication, FLOODUP, a strategy that combines a participatory methodology (citizen science) with educational activities, will be presented as a measure of adaptation to floods and their possible increase due to climate change. The adaptation strategies to climate change range from structural measures (building a dam, for example) to non-structural measures (legislation and improvement of risk assessment, for example). In recent years it has become clear that it is necessary to increase the risk awareness of the population in the face of extreme events such as floods, not only when they occur but also before and after (Hyogo Framework). The population's lack of awareness in front of natural hazards makes it difficult to take responsible decisions at the individual and community level. This is especially relevant considering the context of climate change, which also contributes with a perception of uncertainty. In this context, the development of innovative adaptation strategies based on the knowledge are needed. These strategies are also an opportunity to face the challenges associated with SDGs (Sustainable Development Goals).

The objective of FLOODUP project is double: (a) to improve the knowledge, capacitation and empowerment of the population in front of natural hazards and climatic change and (b) to collect information about their impact and management through citizen science. The tools developed in the project as a mobile application, questionnaires or educational materials will be presented. The main campaigns carried out will also be shown. Their aim is to generate spaces for reflection, especially after flood events. On the other hand, the itinerary of citizen science that is developed in secondary schools and its strengths and weaknesses will be presented. Finally, it will analyze how to respond to current challenges, such as those associated with the SDGs, from projects such as FLOODUP.

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